

Applicant(s): Olivier Guaume, et al.  
 Serial No.: 10/028,099  
 Filed: December 21, 2001  
 For: METHOD FOR OPTIMIZATION OF TEMPORAL PERFORMANCES WITH RAPID CONVERGENCE  
 Art Unit: 2825  
 Examiner: Thompson, Annette M.

FR000157

**AMENDMENTS TO THE CLAIMS:**

Please amend claims as follows:

1. (currently amended) A method for optimization of temporal performance of ~~an~~ a network of electronic cells, ~~comprising with a plurality of cells which that~~ are taken from a library, comprising having several categories of cells, the cells of a same category all having the same functionality, which method comprises the following steps: [[

• ]] accurate computation of propagation times of signals which pass through each cell of the network; and

[[

• ]] identification of cells which have a ~~value of the propagation time~~ computed propagation time value greater than a predetermined reference value.

AS 2. (currently amended) ~~-A The method for optimization as claimed in of claim 1, wherein a predetermined threshold value val<sub>j</sub> is allocated to each cell of a rank, rank<sub>j</sub>, of a same category, and wherein, when a cell of another rank, rank<sub>i</sub>, identified must be replaced by a cell of a higher rank, rank<sub>k</sub>, the value of rank<sub>k</sub> is at least equal to rank<sub>i</sub> + rank<sub>j</sub>, if the value of the propagation time said computed propagation time value for said cell of rank<sub>i</sub> is greater than the predetermined threshold value val<sub>j</sub> of the said cell of rank<sub>j</sub>.~~

3. (currently amended) ~~-A The method for optimization as claimed in of claim 2, wherein, when a cell of rank<sub>i</sub> identified must be replaced by a cell of a higher rank, rank<sub>k</sub>, the value of rank<sub>k</sub>~~

Applicant(s): Olivier Guaume, et al.  
Serial No.: 10/028,099  
Filed: December 21, 2001  
For: METHOD FOR OPTIMIZATION OF TEMPORAL PERFORMANCES WITH RAPID CONVERGENCE  
Art Unit: 2825  
Examiner: Thompson, Annette M.

FR000157

$\text{rank}_k$  is equal to the sum of  $\text{rank}_i$  and  $\text{rank}_j$   ~~$-i-j$~~ , if the value of the propagation time said computed propagation time value for said cell of rank  $i$  is within the predetermined threshold values  $\text{val}_j$  and  $\text{val}_{j+1}$  of the said cells of consecutive ranks,  ~~$-j$~~   $\text{rank}_j$  and  ~~$-j+1$~~   $\text{rank}_{j+1}$ .

4. (currently amended) ~~A~~ The method for optimization as claimed in of claim 1, wherein execution of the a replacement step is subject to validation by the a user of the said method.

5. (currently amended) An integrated circuit comprising a network of cells, the temporal performances of which have been optimized by ~~means of a method according to claim 1~~ accurate computation of propagation times of signals which pass through each cell of the network; and identification of cells which have a computed propagation time value greater than a predetermined reference value.

6. (currently amended) ~~A receiver device for radio signals, comprising an integrated circuit according to claim 5~~ having a network of cells, the temporal performances of which have been optimized by accurate computation of propagation times of signals which pass through each cell of the network; and identification of cells which have a computed propagation time value greater than a predetermined reference value.